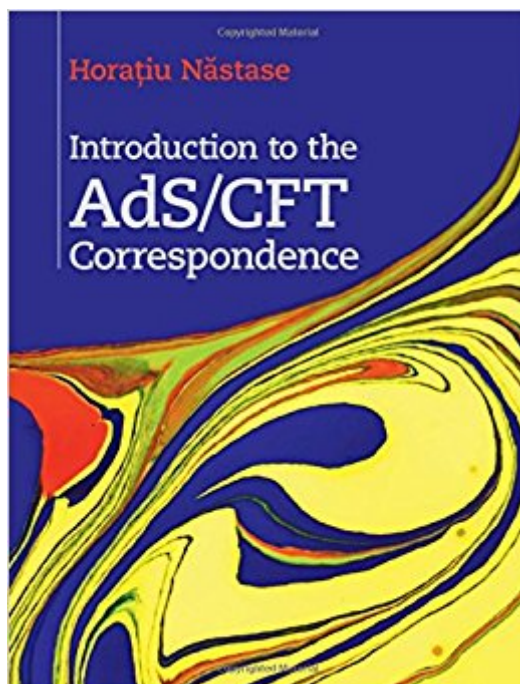


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Introduction To The AdS/CFT Correspondence



Synopsis

Providing a pedagogical introduction to the rapidly developing field of AdS/CFT correspondence, this is one of the first texts to provide an accessible introduction to all the necessary concepts needed to engage with the methods, tools and applications of AdS/CFT. Without assuming anything beyond an introductory course in quantum field theory, it begins by guiding the reader through the basic concepts of field theory and gauge theory, general relativity, supersymmetry, supergravity, string theory and conformal field theory, before moving on to give a clear and rigorous account of AdS/CFT correspondence. The final section discusses the more specialised applications, including QCD, quark-gluon plasma and condensed matter. This book is self-contained and learner-focused, featuring numerous exercises and examples. It is essential reading for both students and researchers across the fields of particle, nuclear and condensed matter physics.

Book Information

Hardcover: 453 pages

Publisher: Cambridge University Press; 1 edition (October 21, 2015)

Language: English

ISBN-10: 1107085853

ISBN-13: 978-1107085855

Product Dimensions: 7.4 x 0.9 x 9.7 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: 2.0 out of 5 stars 1 customer review

Best Sellers Rank: #892,044 in Books (See Top 100 in Books) #136 in Books > Science & Math > Physics > Nuclear Physics > Particle Physics #612 in Books > Science & Math > Physics > Mathematical Physics #803 in Books > Science & Math > Physics > Quantum Theory

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"A remarkably comprehensive introduction to an important subject, which should be accessible to those with some basic background in quantum field theory and general relativity." Michael Dine, University of California, Santa Cruz
"Horia Nastase has managed to capture both the depth and breadth of the gauge/gravity duality in a wonderfully pedagogical manner. I can very well see Introduction to the AdS/CFT Correspondence becoming a standard reference for both graduate students as well as seasoned researchers in the field." Jeff Murugan, University of Cape Town
"A welcome survey of what has become a broad and well-established area of research ... a useful

reference for students entering the field as well as for experienced practitioners, both in string theory and in other communities." Diego Trancanelli, University of São Paulo

An innovative and accessible text that introduces all the necessary concepts needed to engage with the methods, tools, and applications of AdS/CFT correspondence, without assuming anything beyond an introductory course in quantum field theory. Pedagogical and self-contained, it is an excellent introduction for students and researchers across theoretical physics.

The book states that an introductory course on QFT as a prerequisite and is sufficient, but that is misleading, Consider buying this book only if you have studied QFT over multiple years or done research on the subject, otherwise you would be lost after 10 pages or so.

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